

REMARKS

The specification has been amended to improve form, for consistency with the figures and to correct minor typographical errors. Claims 1-7, 10, 12 and 13 have been amended to improve form and claims 14 and 15 have been canceled without prejudice or disclaimer. Claims 1-13 are now pending in this application.

The applicant acknowledges, with appreciation, the indication that claims 7-11 have been allowed and that claims 5 and 6 would be allowable if rewritten in independent form.

Claims 1-4 and 12-15 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Ludwig et al. (U.S. Patent No. 6,697,352; hereinafter Ludwig). The rejection is respectfully traversed.

Claim 1, as amended, includes features similar to those recited in original claim 5, which was indicated as containing allowable subject matter. Claim 1, therefore, is believed to be in condition for allowance. Accordingly, withdrawal of the rejection and allowance of claim 1 are respectfully requested.

Claims 2-4 are dependent on claim 1 and are believed to be allowable for at least the reasons claim 1 is allowable. Accordingly, withdrawal of the rejection and allowance of claims 2-4 are respectfully requested.

Claim 12, as amended, recites a communication system for use in connecting a mobile station through an apparatus to a terminal included in a connectionless network. Claim 12, as amended, recites that the apparatus includes a first group of frame memories corresponding to a plurality of radio links used to transmit data between the apparatus and the mobile station, the first

group of frame memories being configured to store PPP frames produced from reception packets; a plurality of converters configured to read from the first group of frame memories and to convert the PPP frames into radio frames; a second group of frame memories for storing radio frames received from the mobile station via radio links; and a reproducing device configured to convert the radio frames read from the second group of frame memories into PPP frames. Ludwig does not disclose or suggest this combination of features.

For example, the Office Action states that Ludwig discloses an output buffer 5 for storing frames, but admits that output buffer 5 does not include a number of memories corresponding to a plurality of radio channels (Office Action – pages 2-3). The Office Action also states that Ludwig does teach separate queues in output buffer 5, but admits that the plurality of queues in output buffer 5 are for handling different modes of transmission and are not for handling a plurality of radio channels (Office Action – page 3). The Office Action, however, states that it would have been obvious to implement Ludwig's teaching by employing separate memory spaces for storing each of the frames corresponding to the plurality of channels to provide canalized framing of data packets (Office Action – page 3). The applicant respectfully disagrees.

First, claim 12, as amended, recites a first group of frame memory corresponding to the plurality of radio links used to transmit data between an apparatus and a mobile station. Ludwig, as stated in the Office Action, discloses that output buffer 5 may include two queues if there are two transmission reliability modes (Ludwig – col. 11, lines 9-20). Such a disclosure in Ludwig does not suggest having a first group of frame memories corresponding to a plurality of radio links used to

transmit data between an apparatus and a mobile station, as required by amended claim 12, much less that the frame memories store PPP frames, as further required by claim 12.

Claim 12 further recites a plurality of converters configured to read from the first group of frame memories and to convert the PPP frames into radio frames. Ludwig does not disclose the claimed plurality of converters.

Claim 12 further recites a second group of frame memories for storing radio frames received from the mobile station via radio links and a reproducing device configured to convert the radio frames read from the second group of frame memories into PPP frames. The Office Action has not particularly addressed these features of claim 12. The applicant respectfully requests that any subsequent communication address these features or withdraw the rejection. In any event, Ludwig does not disclose or suggest the claimed second group of frame memories for storing radio frames or the claimed reproducing device.

For at least these reasons, Ludwig does not disclose or suggest each of the features of amended claim 12. Accordingly, withdrawal of the rejection and allowance of claim 12 are respectfully requested.

Claim 13, as amended, recites features similar to claim 12. For reasons similar to those discussed above with respect to claim 12, Ludwig does not disclose or suggest each of the features of amended claim 13. Accordingly, withdrawal of the rejection and allowance of claim 13 are respectfully requested.

CONCLUSION

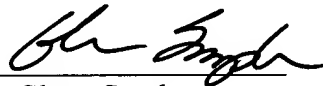
In view of the foregoing amendments and remarks, the applicant respectfully requests withdrawal of the outstanding rejection and the timely allowance of this application. If there are any outstanding issues which might be resolved by an interview or an Examiner's amendment, please feel free to call the undersigned attorney at the telephone number shown below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 50-1070 and please credit any excess fees to such deposit account.

Respectfully submitted,

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